

READ ME

This package includes data and code for the replication of the results in "Making a Market: Infrastructure, Integration, and the Rise of Innovation", by David Andersson, Thor Berger, and Erik Prawitz. Accepted for publication in the Review of Economics and Statistics.

Included do-files:

1. tables_and_figures.do: Stata do file (using version MP 15.1) to produce all tables and figures in the paper (except the maps in Figure 2).

Included data-files:

1. main_MaM.dta: Main data 1830-1900 to produce Figure 3 and Tables 1-6.
2. aggregate1.dta: Aggregate data used to produce figure 1A.
3. aggregate2.dta: Aggregate data used to produce figure 1B.
4. aggregate3.dta: Aggregate data used to produce figure 1C.
5. aggregate4.dta: Aggregate data used to produce figure 1D.

Data sources:

Below we have appended a codebook for all variables in main_MaM.dta. We here briefly describe the data sources for each set of variables. See the main text for a more detailed description of sources and variable construction. All variables listed under "Regional units" are derived from maps obtained from the Swedish National Archives. Variables listed under "Railroads" are constructed from georeferenced maps of the historical railroad network based on map collections mainly obtained from Statistics Sweden. The data used to construct the variables listed under "Instrumental variables and geography" are drawn from several different GIS databases detailed in the main text. "Population and manufacturing" data is drawn from Statistics Sweden and *Palm, L.A. (2000). Folkmängden i Sveriges socknar och kommuner 1571-1997: med särskild hänsyn till perioden 1571-1751. Göteborg: Nomen förlag*. All variables listed under "Patents, inventors, and transfers" are derived from data collected from the Swedish National Archives and the Swedish Patent and Registration Office.

Codebook:

Variable name	Description
<i>Regional units</i>	
m_id	Municipality id
year	Decade
muniname	Municipality name
region8	Regional division, 8 national areas (NUTS-II)
region3	Regional division, 3 national areas
urban	Urban indicator
llon	ln(Longitude)
llat	ln(Latitude)

larea	ln(Area)
ldisttown	ln(Distance to town)

Railroads

d5km_rail	Rail (5km)
d5km_rail1900	Rail 1900 (5km)
d10km_rail	Rail (10km)
d10km_rail1900	Rail 1900 (10km)
dist_rail	ln(Dist. rail)
ldist_rail1900	ln(Dist. rail 1900)
ldist_rail	ln(Dist. rail)
ldist_rail1900	ln(Dist. rail 1900)
ldist_ericson	ln(Dist. Ericson Plan)
p_e	Placebo line (Ericson's proposal)
p_v	Placebo line (von Rosen's proposal)
p_k	Placebo line (1870 committee proposal)
p_o	Placebo line (1870 municipality proposal)

Instrumental variables and geography

ldist_leastcost	ln(Dist. Least-Cost Path)
ldist_leastcostnw	ln(Dist. Least-Cost Path)
elev_mean	mean(Elevation)
elev_std	sd(Elevation)
slope_mean	mean(Slope)
cost_mean	mean(Cost)
ldistnearestnode	ln(Dist. to Nearest Node)
endpoint	Node municipality

Population and manufacturing

lpop1865	ln(Population 1865)
pop1865	Population 1865
mfgpopshare1865	Share mfg. workers 1865
firmspercap1865	Mfg. firms p.c. 1865

Patents, inventors, and transfers

patents	#Patents
numpois	#Inventors
numfirms	#Firm inventors
numpersons	#Independent inventors
anypatents	Any patent
patentspc	Patents per 1,000 inhabitants 1865
numpoispc	Inventors per 1,000 inhabitants 1865
numpersonspc	Independent inventors per 1,000 inhabitants 1865
numfirmspc	Firm inventors per 1,000 inhabitants 1865
patperpoi	Patents per inventor
patperperson	Patents per independent inventor
patperfirm	Patents per firm inventor
patents_newclasspc	Patents in novel tech field per 1,000 inhabitants 1865
patents_oldclasspc	Patents in non-novel tech field per 1,000 inhabitants 1865
patents_newindustrypc	Patents in novel industrial sector per 1,000 inhabitants 1865
patents_oldindustrypc	Patents in non-novel industrial sector per 1,000 inhabitants 1865
patents_toppc	Patents in existing industrial sector per 1,000 inhabitants 1865
patents_nontoppc	Patents in non-existing industrial sector per 1,000 inhabitants 1865
patents_top1pc	Patents in leading industrial sector per 1,000 inhabitants 1865
patents_nontop1pc	Patents in non-leading industrial sector per 1,000 inhabitants 1865
jaffe	Tech proximity (fields)
jaffe_14	Tech proximity (sectors)
anytransfers	Any patent transfer
anyrail_transfer5km	Any connected patent transfer
anynonrail_transfer5km	Any non-connected patent transfer
anymuni_transfer	Any in-municipality patent transfer
transferspc	Patent transfers per 1,000 inhabitants 1865
rail_transfer5kmpc	Connected patent transfers per 1,000 inhabitants 1865
nonrail_transfer5kmpc	Non-connected patent transfers per 1,000 inhabitants 1865
muni_transferpc	In-municipality patent transfers per 1,000 inhabitants 1865
transfers_newclasspc	Patent transfers in novel tech field per 1,000 inhabitants 1865
transfers_oldclasspc	Patent transfers in non-novel tech field per 1,000 inhabitants 1865

transfers_newindustry _{pc}	Patent transfers in novel industrial sector per 1,000 inhabitants 1865
transfers_oldindustry _{pc}	Patent transfers in non-novel industrial sector per 1,000 inhabitants 1865
transfers_top _{pc}	Patent transfers in existing industrial sector per 1,000 inhabitants 1865
transfers_nontop _{pc}	Patent transfers in non-existing industrial sector per 1,000 inhabitants 1865
transfers_top1 _{pc}	Patent transfers in leading industrial sector per 1,000 inhabitants 1865
transfers_nontop1 _{pc}	Patent transfers in non-leading industrial sector per 1,000 inhabitants 1865
transfers_indp2firm _{pc}	Independent to firm patent transfers per 1,000 inhabitants 1865
transfers_indp2ind _{pc}	Independent to independent patent transfers per 1,000 inhabitants 1865
transfers_firm2ind _{pc}	Firm to independent patent transfers per 1,000 inhabitants 1865
transfers_firm2firm _{pc}	Firm to firm patent transfers per 1,000 inhabitants 1865
transfers_NOTindp2firm _{pc}	Not independent to firm patent transfers per 1,000 inhabitants 1865
anypatpre60	Any patent before 1860